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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/654,975 09/05/2003		Shigenobu Nakamura	117050	5670	
25944 7	590 07/17/2006	EXAMINER			
OLIFF & BERRIDGE, PLC			CHARLES, MARCUS		
P.O. BOX 1992 ALEXANDRIA	- -		ART UNIT	PAPER NUMBER	
	,		3682		
			DATE MAILED: 07/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)				
Office Action Summary			10/654,975	NAKAMURA, SH	NAKAMURA, SHIGENOBU			
			Examiner	Art Unit				
			Marcus Charles	3682				
Period fo	The MAILING DATE of this communion Reply	cation appe	ears on the cover sheet wi	th the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply is specified above, the maximum state to reply within the set or extended period for reply we reply received by the Office later than three months af- ed patent term adjustment. See 37 CFR 1.704(b).	AILING DA of 37 CFR 1.13 unication. tutory period wi will, by statute,	TE OF THIS COMMUNION (6(a). In no event, however, may a reliable to the apply and will expire SIX (6) MON cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this of the company	,			
Status								
1)⊠	Responsive to communication(s) filed	d on <i>21 An</i>	ril 2006 and 01 June 200	6				
· —	Responsive to communication(s) filed on <u>21 April 2006 and 01 June 2006</u> . This action is FINAL . 2b)⊠ This action is non-final.							
<i>′</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>6-9</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) is/are allowed.							
6)⊠	⊠ Claim(s) <u>6-9</u> is/are rejected.							
7)								
8)□	Claim(s) are subject to restrict	tion and/or	election requirement.					
Applicati	on Papers							
9)	The specification is objected to by the	Examiner						
10)⊠ The drawing(s) filed on <u>05 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	inder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
۵٫۱	a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
			·					
Attachmen	c(s)							
	e of References Cited (PTO-892)		4) Interview Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P)/Mail Date formal Patent Application (PT)	nal Pate mal Patent Application (PTO-152)			
	No(s)/Mail Date <u>06-01-06</u> .		6)		•			

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DETAILED ACTION

This action is responsive to the amendment and RCE 4/25/2006 and 06-01-2006 respectively. Claims 6-9 are currently pending.

Continued Examination Under 37 CFR 1.114

1. The request filed on 06-01-2006 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 10/654,975 is acceptable and a RCE has been established. An action on the RCE follows.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over (applicant's prior art) JP (2002-138849) to Kitamura et al. in view of Adachi et al. (6,201,310). Kitamura et al. discloses a belt drive system driven by an internal combustion engine of an automotive vehicle, comprising a drive pulley (2) connected to a crankshaft; a plurality of driven pulleys (23,4) and first and second generator/motors connected to the system device such that a belt (10) wound around the plurality of driven pulleys, the driven pulleys tensioner pulleys (5-7, 201)) and the generator/motor pulleys (8-9). Kitamura et al. also disclose the automatic tensioner is pulley (201) is closer to one of the generator/motor (9) than to the generator motor. Kitamura et al. also discloses that the rotational frequency of the motor/generator (9) is a high-speed torque

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and that of the second motor/generator (8) is a low speed torque and the automatic tensioner (201) is closer to the high-speed torque motor/generator (9) to the low speed torque motor/generator (8). Kitamura et al. does not disclose the pulley of the first generator includes a clutch. Adachi et al. disclose that the pulley (21a) is the higher torque motor/generator and requires a clutch so as to disconnect the pulley from the shaft so as not to produce power when not required and to prevent slip. Therefore, it would have been Kitamura et al. so that the first motor/generator pulley (9) includes a clutch view of Adachi et al. to obtain high outputs for large electrical loads and to improve the installation freedom of the engine, to obtain crash safety and to disconnected the pulley from the shaft so as not to produce power when not required and to prevent slip.

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In claim 8, since one generator is a higher speed and requires larger torque than the other, it is apparent that the number of conductors in each slot of a stator of the first generator is larger than the number of conductors of disposed in each slot of the second generator.

In claim 9, as stated above, the automatic tensioner pulley (201) is closer to the first motor/generator which requires greater speed and torque and would produce more power and torque that would require greater tension thus prevent belt slip and wear.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11

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F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claim 6 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 and 4 of copending Application No. 10/648,389 in view of Adachi et al. (6,201,310). Copending Application No. 10/648,389 discloses the claimed invention except for one of the pulleys having a one-way clutch. Adachi et al. disclose that the pulley (22a) is a driving pulley and requires a clutch so as to disconnect the pulley from the shaft so as not produce power when not required and to prevent slip but pulley (21a) may not require a clutch. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Matsui et al. to include a clutch to at least one pulley in view of Adachi et al. to disconnect the pulley from the shaft so as not produce power when not required and to prevent slip.

This is a provisional obviousness-type double patenting rejection.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00

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pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marcus Charles
Primary Examiner
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June 29, 2006